ABSTRACT

A reciprocating pump or compressor has a piston head assembly in a cylinder having an inside surface. The piston head assembly has a piston hub and a piston seal. The piston hub has a flange. A piston seal formed of a first and a second resilient material, the second resilient material having a hardness less than the hardness of the first resilient material, is mounted on the piston hub. The first resilient material abuts the flange and covers an outer surface of the flange. The second resilient material is bonded to the first resilient material. The piston seal has an annular bulge in the second resilient material with a maximum diameter interior to the annular bulge larger than the diameter of the inside surface of the cylinder, forming a seal with the cylinder when compressed upon insertion of the piston head assembly into the cylinder.

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